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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO			
09/472,067	12/23/1999	A-Li W. Hu	0942.4340002	8277		
	7590 07/16/2003					
STERNE, KI	ESSLER, GOLDSTEIN	EXAMINER				
WASHINGTO	ORK AVENUE, N.W.		EXAMINER			
WASHINGIC	N, DC 20005		ZARA, J	ANE J		
			ART UNIT	PAPER NUMBER		
			1635	24		
			DATE MAILED: 07/16/2003	,		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/472,067

Applicant(s)

Examiner

e Zara

Hu et al

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		Jane	zara .	1635	-
_	The MAILING DATE of this communication appears	on the cover she	et with the corres	pondence addres	
	ior Reply				
	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.				
- If the p - If NO p - Failure - Any re	points of time may be available under the provisions of 37 CFR 1.136 (a). In a date of this communication, beriod for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	he statutory minimum of and will expire SIX (6) M	thirty (30) days will be ONTHS from the mailing	considered timely. g date of this communi	
Status	250 37 CFN 1.704(0).			•	
1) 💢	Responsive to communication(s) filed on Jan 30, 2	2003			
2a) 🗌	This action is FINAL . 2b)	tion is non-final.			·
3) 🗌	Since this application is in condition for allowance e closed in accordance with the practice under Ex particles at Contract Cont	except for formal	matters, prosec	ution as to the	merits is
Disposit	ion of Claims	ric addyre, 1950	(C.D. 11; 453 C	J.G. 213.	
4) 💢	Claim(s) <u>35-72</u>		is/are	pending in the s	annlication
4	a) Of the above, claim(s)		is/are	withdrawn from	n consideration
5) 🗆	Claim(s)		io,uro	Vare allowed	ir consideration.
6) 💢	Claim(s) 35-41, 43-53, and 55-72			/are rejected	
7) 💢	Claim(s) 42 and 54		is	/are rejected.	
8) 🗌 (Claims_	are si	ibject to restrict	vare onjected ().
Applicati	ion Papers		open to restrict	on and/or electi	on requirement.
9) 🗌 .	The specification is objected to by the Examiner.				
	The drawing(s) filed on is/are	a) 🗆 accepted o	or b) Objected	to by the Evam	iner
_	Applicant may not request that any objection to the dr	awing(s) be held in	n abevance. See :	37 CFR 1.85(a)	
11) 📙 -	rne proposed drawing correction filed on	is: a)	approved b	disapproved	by the Examiner.
_	if approved, corrected drawings are required in reply to	this Office action	ı .		
12) 🗌 🗍	The oath or declaration is objected to by the Examin	er.			
Priority u 131□ /	nder 35 U.S.C. §§ 119 and 120				
a) [Acknowledgement is made of a claim for foreign prior $All\ b$) \Box Some* c) \Box None of:	ority under 35 U.	S.C. § 119(a)-(d	l) or (f).	
	- service depies of the priority documents have				1
3.	- as a sopies of the priority documents have	been received in	Application No.		·
*See	Copies of the certified copies of the priority doc application from the International Bureau the attached detailed Office action for a list of the			is National Stag	je
14)💢 A	cknowledgement is made of a claim for domestic p	riority under 35 t	JSC & 119/al		
a) ∟	The translation of the foreign language provisional a	application has be	en received		
15)□ A	cknowledgement is made of a claim for domestic pr	riority under 35 L	J.S.C. §§ 120 a	nd/or 121	
ittachmen	((5)				
	of References Cited (PTO-892)) 🔲 Interview Summary	(PTO-413) Paper No(s	·	
	Stion Disclosure Statemental (DTD 4440)	Notice of Informal I	Patent Application (PTO	-152)	
	ation Disclosure Statement(s) (PTO-1449) Paper No(s)	Other:			

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DETAILED ACTION

This Office action is in response to the communications filed November 27, 2002 and January 30, 2003, Paper Nos. 20 and 21.

Claims 35-72 are pending in the instant application.

Continued Prosecution Application

The request filed on November 27, 2002 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/472,067 is acceptable and a CPA has been established. An action on the CPA follows.

Any rejections not repeated in this Office action are hereby withdrawn.

Response to Arguments and Amendments

Applicant's arguments with respect to claims 1-21 and 23-34 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 35-41, 43-53 and 55-72 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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The claims are drawn to compositions and methods to make compositions comprising a double stranded nucleic acid molecule which comprises two or more copies of a repeat-containing sequence, wherein the top strand of the repeat-containing sequence has substantially the same percentage of each respective nucleotide as in the bottom stand and adjacent copies of repeatcontaining sequences are separated by a restriction site. The specification and claims do not describe a representative number of species in the genus comprising any and/or all double stranded nucleic acid molecules that comprise any and/or all repeat-containing sequences having substantially the same percentage of each respective nucleotide in the bottom and top strands. Concise structural features that could distinguish structures or compounds within the genus from others are missing from the disclosure. The general knowledge and level of skill in the art do not supplement the omitted description because specific, not general, guidance is what is needed. The specification fails to teach or adequately describe a representative number of species in the broad genus claimed, such that the common attributes or characteristics concisely identifying members of the genus are exemplified. And because the genus is highly variant, the description provided is insufficient. Therefore, one of skill in the art would reasonably conclude that the disclosure fails to provided a representative number of species to describe the genus claimed.

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.. . . .

Thus, Applicant was not in possession of the claimed genus, comprising nucleic acid molecules that have repeat-containing sequences with the same percentage of each respective nucleotides in the bottom and top stands.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 35, 36, 39, 41, 43, 48, 49 and 51 rejected under 35 U.S.C. 102(b) as being anticipated by Oncor.

Oncor teaches a linear nucleic acid molecule (DNA) comprising two or more copies of a repeat-containing sequence, wherein the top strand of the repeat-containing sequence has substantially the same percentage of each respective nucleotide as in the bottom stand and adjacent copies of palindromic, repeat-containing sequences are separated by a restriction site (e.g. Pst 1) that generates sticky ends upon digestion (See v-fes, met-D and met-H on page 172), also see accompanying Eco R1 and Pst 1 restriction site nucleotides sequences).

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Allowable Subject Matter

Claims 42 and 54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Certain papers related to this application may be submitted to Art Unit 1635 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-3014. NOTE: If Applicant *does* submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Jane Zara** whose telephone number is (703) 306-5820. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader, can be reached on (703) 308-0447. Any inquiry regarding this application should be directed to the patent analyst, Katrina Turner, whose telephone number is (703) 305-3413. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

CAREN LACOURCIERE PATENT EXAMINER

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JZ

July 11, 2003